

THE TAMIL NADU Dr. M.G.R MEDICAL UNIVERSITY

[AHS 0523]

MAY 2023

Sub. Code: 1253

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR
(Candidates admitted from 2020-2021 Batch onwards)
PAPER IV– HAEMATOLOGY AND CLINICAL PATHOLOGY**

Q.P. Code: 281253

Time: three hours

Answer ALL Questions

Maximum:100 Marks

I. Elaborate on:

(2 x20 = 40)

1. Classify Qualitative platelet disorders in detail with lab investigations.
2. Write a note on physical and chemical examination of urine in detail.

II. Write notes on:

(10X6=60)

1. Write a detail note on hemoglobin electrophoresis with suitable diagrams and write the normal and abnormal patterns seen in clinical samples.
2. Write a note on procedure, principle and the clinical significance of Activated partial thromboplastic time.
3. Explain Hemophilia A and their lab investigations.
4. Define hemochromatosis and their lab investigations.
5. Write a note on preparation and examination of bone marrow smear with staining.
6. Discuss MAHA their lab investigations.
7. Write a note on steps involved in primary hemostasis and their lab investigations.
8. Write the difference between hemolytic and hepatic jaundice with their lab investigations.
9. Explain smear findings, lab investigations and the causes for Megaloblastic anemia.
10. Classify autoimmune hemolytic anemia with their lab work up.
